

IN THE SPECIFICATION:

Page 7, please amend the paragraph beginning at line 10 as follows:

In the mass spectrometer of the present invention, the gas pressure in the ion trap can be switched at high speed, and the respective switched pressures can be held almost constant. Specifically, a bath gas (such as Ar or N₂) having a heavy mass is intermittently introduced in a collisional activated dissociation process of precursor ions having a mass to be detected to conduct CID (collision-induced dissociation). In a mass spectrometer of a type dissociating ions by laser irradiation, a bath gas is introduced only in an ion accumulation process and an ion ~~detection~~ isolation process and gas introduction is stopped in a precursor ion dissociation process to conduct photo dissociation. In the present invention, the sensitivity of the mass spectrometer is increased as compared with the prior art.